

SAURAUIAE GERONTOGEAE

III. Two new species from Flores

by

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Abstract

Two new species of *Saurauia* are described from the island of Flores in the Lesser Sunda Islands: *S. schmutzii* Hoogl. and *S. verheijenii* Hoogl.

Introduction

From a study of herbarium specimens it has become apparent that the genus *Saurauia* is represented in the Lesser Sunda Islands by some species extending their range eastward from Java, as well as by some other, endemic ones represented on one or more islands of the chain. During a short visit to Flores in June 1975 the author was able to collect two of the endemic species which are here formally described.

Fieldwork from Ruteng was greatly facilitated by Fathers Jilis A. J. Verheijen and Erwin Schmutz of the Catholic Mission at Ruteng, and by Father M. Malar, the Rector of the Mission. The assistance of the Bupati, Mr. Salesius Lega, is also gratefully acknowledged.

The illustration of *S. schmutzii* was prepared by Mrs. Cathy Porter, that of *S. verheijenii* by Miss Jill Ruse.

1. *Saurauia schmutzii* Hoogl., *sp. nov.* (fig. 1)

Arbor parva usque 7 m alta, 10 cm diametro. Folia oblonga, plerumque 12-32 cm longa, 5-14 cm lata, 18-25-nervata, apice obtusa usque acuta, basi retusa vel subcordata, petiole 4-6 cm longo. Inflorescentiae solitariae vel 2-6 fasciculatae in axillis foliorum vel cicatricium foliorum, nonnullae in ramulis brevibus in axillis foliorum parviorum (usque 8×4 cm); dichasiales, 1-12-florae, usque 7 cm longae. Pedunculus 2-3 cm longus. Pedicellus 5-15 mm longus. Sepala ovalia vel suborbicularia, 2 exteriora 4.5-6 mm longa, 5-6 mm lata, 2 interiora 7-7.5 mm longa, 6-7 mm lata. Corolla anguste campanulata, 11-12 mm longa, 12-15 mm diametro; tubus 1.5-2 mm longus, 7-8 mm diametro; lobi 10-12.5 mm longi, 8.5-11.5 mm lati, apice bilobulati. Stamina plerumque 20-26, filamentis 2-3 mm longis, antheris versatilibus dorsifixis 1.5-2.5 mm longis. Ovarium depresso globosum, ca 2.2 mm altum, 3.7 mm diametro, parte basali glabrum, parte apicali sparsim villosum, (4- vel) 5-loculare; styli 4.5-5 mm longi, basi 0.5-1 mm connati.

Squamae suborbiculares usque acuminatae, glabrae; inter squamas tomentum villosum. Squamae ramorum usque 4 mm longae, 1 mm latae (plerumque minores), foliorum usque 2 mm longae, pedunculorum et pedicellorum usque 1 mm longae. Tomentum plerumque densum, sed facie superiori foliorum apertum.

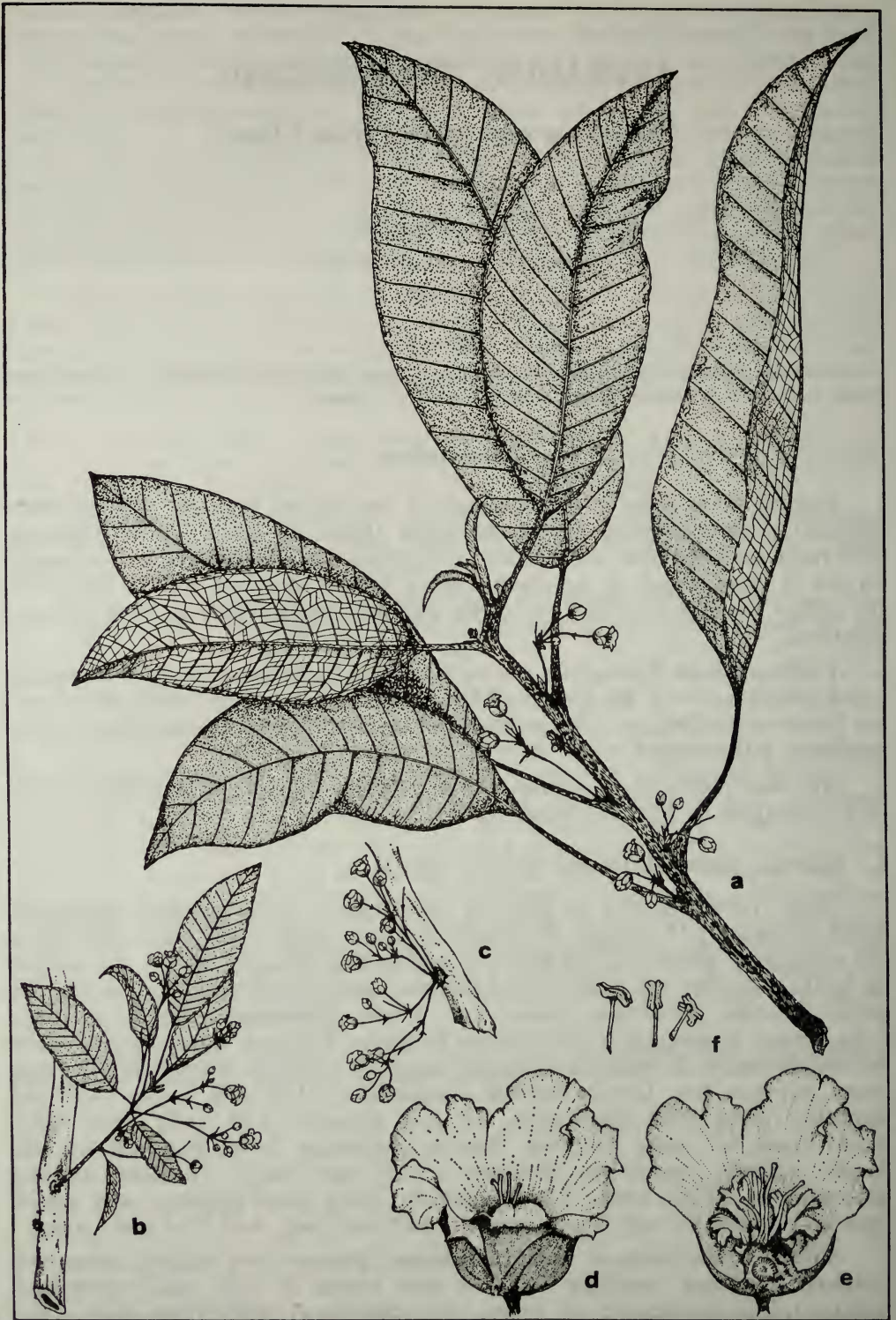


Fig. 1. *Saurauia schmutzii* Hoogl. a. flowering branch, $\times \frac{1}{4}$; b. small-leaved lateral flowering branch, $\times \frac{1}{4}$; c. clustered inflorescences on leafless branch, $\times \frac{1}{4}$; d. open flower, $\times 2$; e. longitudinal section of flower, $\times 2$; f. stamens, $\times 2$. All after Hoogland 12652.

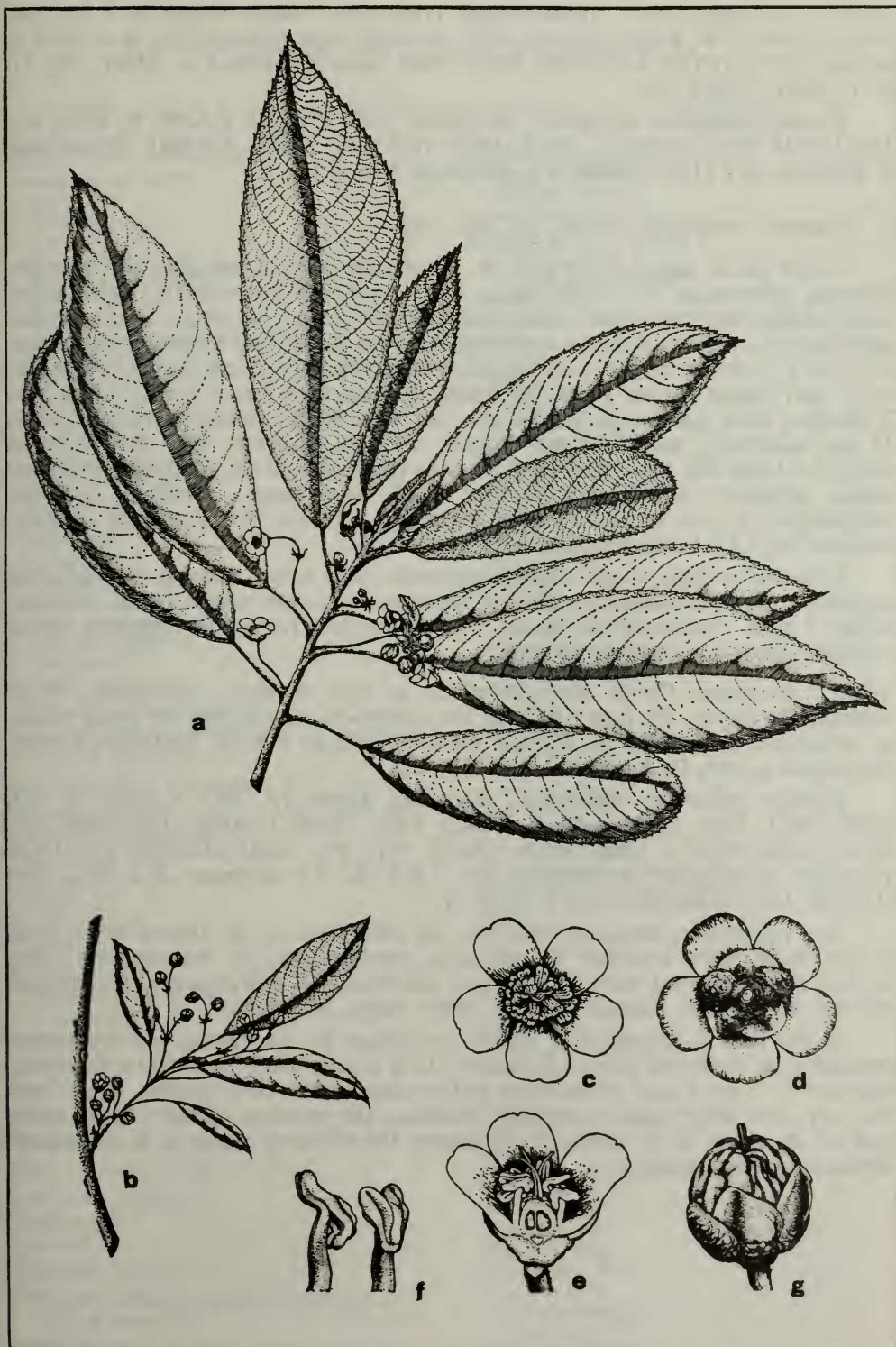


Fig. 2. *Saurauia verheijensis* Hoogl. a. flowering branch, $\times \frac{1}{3}$; b. small-leaved lateral flowering branch, $\times \frac{1}{3}$; c. open flower, upper view, $\times 1\frac{1}{2}$; d. open flower, lower view, $\times 1\frac{1}{2}$; e. longitudinal section of flower, $\times 2$; f. stamens, $\times 4$; g. immature fruit, $\times 2$. All after Hoogland 12648.

TYPE: *Hoogland* 12652, Tsuntsarompe creek near Nderu village ca 2 km due west of Ruteng, W. Flores, 28 June 1975, on steep slope of deep gully at ca 1200 m altitude. HOLOTYPE in CANB, ISOTYPES being distributed to BISH, BO, G, K, L, MEL, SING, US.

Further collections examined: *Hoogland* 12650 (A, BO, CANB, E, KEP, L), 12651 (BM, BO, CANB, L, NY), 12657 (CANB), 12658 (CANB), *Kostermans & Wirawan* 883 (BO, CANB, L), *Verheijen* 784 (L).

2. *Saurauia verheijenii* Hoogl., *sp. nov.* (fig. 2)

Arbor parva usque 12 m alta, 30 cm diametro. Folia oblonga vel obovato-oblonga, plerumque 11-25 cm longa, 4-10 cm lata, 13-16-nervata, apice acuta usque obtusa, basi late acuta usque rotundata, petiolo 3-5 cm longo. Inflorescentiae solitariae vel 2-4 fasciculatae in axillis foliorum vel cicatricium foliorum, racemosae, (1-) 3-5 (-7)-florae, usque 7 cm longae. Pedunculus 0.5-3.5 cm longus. Pedicellus 20-25 mm longus. Sepala ovata vel ovalia, 2 exteriora 8.5 mm longa, 7 mm lata, 2 interiora 9-9.5 mm longa, 6.5-7.5 mm lata. Corolla campanulata, 12 mm longa, 15 mm diametro; tubus 1-2 mm longus, 5.5 mm diametro; lobi 12.5-13.5 mm longi, 7.5-9 mm lati, apici bilobulati. Stamina plerumque 21-26, filamentis 3-4.5 mm longis, antheris versatilibus dorsifixis 3-3.5 mm longis. Ovarium conicum, rotundatum, 3 mm altum, 4.2 mm diametro, glabrum, verrucosulum, 3-4(-5)-loculare; styli 4.5-5 mm longi, basi 2.5 mm connati.

Squamae anguste acutae usque acuminatae, basi villosae excepto glabrae; inter squamas tomentum stellatum villosum. Squamae ramorum usque 3 mm, foliorum usque 2 mm, pedunculorum usque 1 mm longae. Tomentum apertum, faciei superiori foliorum interdum nullum.

TYPE: *Hoogland* 12648, near Golorukal at foot of Poco Taduwalog, W of Ruteng, W. Flores, 26 June 1975, in low forest on alluvial fan on lower slopes of mountain, at ca 1500 m altitude. HOLOTYPE in CANB, ISOTYPES being distributed to BO, G, K, L, MEL, SING, US.

Further collections examined: *Hoogland* 12644 (A, BO, CANB, K, L), 12645 (BO, BRI, CANB, E, L, SING, US), 12647 (CANB, L), 12649 (A, BM, CANB, NSW), 12653 (BO, CANB, NY, P), 12655 (CANB, L), 12656 (CANB), *Kostermans & Wirawan* 579 (BO, K, L), *Schmutz* 272 (L), 3846 (CANB, L), *Verheijen* 333 (L), 2076 (L).

The two species here described are the only ones so far known to occur in Flores. Both were collected in the close surroundings of Ruteng, with only *S. verheijenii* collected elsewhere as well (*Schmutz* 272: Wangkung, probably at 800-900 m altitude; *Schmutz* in litt.; 3846: Naga, at 900 m).

In the field *S. schmutzii* is readily recognised by the ferruginous tomentum, especially on the lower side of the leaves. It is usually more abundantly flowering, but there is a great deal of variation in this character in both species. Apart from the very clear differences in external tomentum, the presence of hairs in the upper part of the ovary in *S. schmutzii*, as against the glabrous ovary of *S. verheijenii*, separates the two species.